# YTM32B1MD2x HCU Demo 使用说明

# 简述

YTM32B1MD2x 支持非对称算法 ECC-192/256/384 以及 RSA-1024/2048/3072/4096

特封出静态库,下面给出个简单示例

#### Demo 中展示

- AES-ECB 使用软件密钥进行加密
- AES-CMAC 使用软件密钥进行签名与验签,使用硬件密钥进行签名与验签
- SHA-256 的签名与验签
- RSA-1024 使用软件密钥进行加密与解密
- RSA-4096 使用硬件密钥进行加密与解密
- ECC-256 的基础运算,点加与点乘运算
- ECDSA 公钥生成,签名生成,以及签名认证

# 发布清单

- HCU demo 应用程序 (双击 HCU\_Demo.yct 生成工程)
- lib\_hcu.a (HCU 的驱动包,适用于 GCC 与 YuntulDE 开发环境)
- mdk\_hcu.lib (HCU 的驱动包,适用于 KEIL 开发环境)
- iar\_hcu.a (HCU 的驱动包,适用于 IAR 开发环境)

# 常见问题

# YuntulDE添加库

在 YuntulDE 加载完 OSIRE 的示例后,请注意下面几条提示。 右键工程并点击 **Properties** 来打开工程属性窗口。

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	Build Project	18 19 #include "adc_driver.h"					
	Clean Project	20 #include "peripherals_adc_config.h"					
	Close Project	21 #include "sdk_project_config.h" 22 #include (string.h)					
	Close Unrelated Project	23					
	Build Targets Open Properties Dialog	24 // #define VOLTAGE_DETECT					
	Index	<pre>26 uint8_t data[8];</pre>					
	Build Configurations >	27 28 static vistl6 t color@00[7] =					
	Profiling Tools >	29 { 0x1fff, 0x0000, 0x0000, 0x1fff, 0x0000, 0x1fff, 0x1fff );					
	Debug As	<pre>30 static uint16_t colorGREEN[7] = 31 ( 0.0000 0.1111 0.0000 0.0000 0.1111 0.1111 0.1111 );</pre>					
	Profile As	32 static uint16_t colorBLUE[7] =					
	Restore from Local History	33 { 0x0000, 0x0000, 0x1fff, 0x1fff, 0x1fff, 0x0000, 0x1fff };					
	Run C/C++ Code Analysis	35 OSIRE PumDataType dataPum, dataPumReturn, dataPumBlank;					
	Compare With	36					
	Replace With	<pre>37 volatile OSIRE_CommEventType appState = IDLE; 38 volatile uint8 t strinCallback. ServiceNumber = 0, strin = 0;</pre>					
	Validate	39 uint8_t LedStatus, LedTemp;					
	Configure	40 uint16_t address = 0, ledCount[3];					
	Source	42 OSIRE_FrameType rspFrame;					
	Properties Alt+Enter	43 void OSIRE_Callback(OSIRE_CommEventType state, uint8_t stripNr);					
		45 void lightShowMode@(void);					
		46" void OSIRE_Callback(OSIRE_CommEventType state, uint8_t stripNr)					
		48 switch (state)					
		49 (午洋)					
		50 case TRANSMISSION_COMPLETE: 51 appState = state:					
		52 break;					
		53 case RECEPTION_COMPLETE:					
		55 break;					
		56 Case RECEPTION_TIMEOUT:					
		57 appstate = state;			* 15 64ZV		
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osire							

# 然后点击 C/C++ Build 来展开并点击 Setting, 并选择 Libraries。Libraries(-l) 里的内容是实际的库文件, 例如, :lib\_hcu.a, Library search path(-L) 里的内容是库所在的路径。



#### 配置 FPU 属性,选择硬件 FPU,配置如下

Properties for HCU_D	emo Exempla20			王洋桥 6420	
type filter text	Settings				⇔▼⊳▼₿
> Resource	王洋炳 6420				
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Logging		王洋桥 6420	王洋娇 6420	, ,	王洋桥 6420
Tool Chain Edito	Optimization	Arm family (-mcpu)	cortex-m33		~
> C/C++ General	Warnings	Architecture (-march)	Toolchain default		~
Linux Tools Path	🖄 Debugging	Instruction set	Thumb (-mthumb)		~
> MCU	✓ ⑧ GNU Arm Cross Assembler	Thumb interwork (-	mthumb-interwork)		
Project Natures Project References	Preprocessor     Management	Endianness	Little endian (-mlittle-endi	an)	~
Run/Debug Setting	Warnings	Float ABI	FP instructions (hard)		~
Task Tags	Miscellaneous	FPU Type	auto		~
WikiText	Preprocessor a 600	Unaligned access	Toolchain default		
王泽知	Includes	TrustZone (-mcmse	e)		
units 6420	🖉 Optimization	AArch64 family	Generic (-mcpu=generic)		~
王洋1010	Warnings     Miscellaneous	Feature crc	Toolchain default		~
6420	SOLUTION STATES STAT	Feature crypto	Toolchain default		
王祥知	General General	Feature fp	Toolchain default		~
王洋桥 6420	Miscellaneous	Feature simd	Enabled (+simd)		~
	GNU Arm Cross Create Flash Image Compared	Code model	Small (-mcmodel=small)		~
6A20	Seneral     GNU Arm Cross Print Size	Strict align (-mstric	t-align)		
王洋如何	🖉 General	Other target flags	王萍奶の一		王洋称
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(?)				Apply and Close	Cancel
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#### 添加路径,增加 hcu\_driver 与 hcu\_cases 目录

Properties for HCU_De	mo 王洋桥 6 <sup>A20</sup>				– o x
type filter text	Settings				⇔ ▼ ⇔ ▼
> Resource Builders	Configuration: Debug [Active]			~ Mana	ge Configurations
Build Variables Environment Logging	Tool Settings Toolchains Devices	🔋 🚺 Container Settings 🎤 Build Ste	eps 🍨 Build Artifact 📓 Binary	Parsers <b>3</b> Error Parser	s
Settings Tool Chain Editor > C/C++ General Linux Tools Path > MCU Project Natures Project References Run/Debug Setting Task Tags	<ul> <li>Target Processor</li> <li>Optimization</li> <li>Warnings</li> <li>Debugging</li> <li>GNU Arm Cross Assembler</li> <li>Preprocessor</li> <li>Includes</li> <li>Warnings</li> <li>Miscellaneous</li> </ul>	Include paths (-I) \${ProjDirPath}/platform/devices/c \${ProjDirPath}/platform/devices/ \${ProjDirPath}/platform/devices/ \${ProjDirPath}/platform/devices/ \${ProjDirPath}/CMSIS/Core/Includ \${ProjDirPath}/rtos/osif \${ProjDirPath}/middleware/utility. "C:\Users\yangiiao_wang\OneDriv "C:\Users\yangiiao_wang\OneDriv	common TM32B1MD2/include TM32B1MD2/startup le print/printf re\Desktop\test\YTM32B1MD2_\ re\Desktop\test\YTM32B1MD2_\	YCT_Demos\HCU_Demo	Acu_driver*
> Validation WikiText	<ul> <li>SGNU Arm Cross C Compiler</li> <li>Preprocessor</li> <li>Includes</li> </ul>	Include system paths (-isystem)		EIFIN PAR	(icu_cases)
	<ul> <li>Optimization</li> <li>Warnings</li> <li>Miscellaneous</li> <li>GNU Arm Cross C Linker</li> <li>General</li> <li>Libraries</li> <li>Miscellaneous</li> <li>S GNU Arm Cross Create Flash Image</li> </ul>	王鸿桥 6420 王鸿桥 6420			王详幼 5420
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随后正常编译即可。

### KEIL添加库

在 KEIL 加载完 HCU 的示例后,请注意下面几条提示。

右键工程并点击 Manage Project Items 来打开工程文件配置窗口

C:\Users\yangjiao_wang\work\ytm32b1mx\demos\YTM32B1MD1\osire\MDK\os File Edit View Project Flash Debug Peripherals Tools SVCS Window Hi	sire.uvprojx - µVision				- a ×
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Copyright 2020-2022 Yu     Source Attended and Atten	ntu Microelectronics co.,1td				一時版 6420
Add Group DNTU Confidential. Th Manage Projectitems Bed strictly in accor cepting such terms of Rebuild all target files aing the aoftware, yo The struct of the struct of the aoftware, yo	is software is owned or controlled by YUNTU and may only be dance with the applicable license terms. By expressly re by downloading, installing, activating and/or otherwise u are agreeing that you have read, and that you agree to used by such license rears. If you do not agree to be				
Contraining     Contraini	<ul> <li>License terms, then you may not retain, install, use the software. The production use license in ly oranted for this software.</li> </ul>				
13 * 14 * Offic main.c 15 * Obvief 16 *					
19 19 19 finclude "ado_driver.h" 20 finclude "peripherals_ado_ 21 finclude "adk project conf 22 finclude (string.h) 23	config.h" ig.h" 王洋坊 6420				
24 // #define VOLTAGE_DETECT 25 26 uint8_t data[8];					
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34 35 OSIRE_FwmDataType dataPwm, 36	dataPwmReturn, dataPwmBlank;				
37 volatile oSIRE_comm2vently 38 volatile unit = strictil 39 unit = tAdStatus, Lefferp 40 unit = tAdStatus, Lefferp 40 unit = tAdstatus = 0, Left 41 OSIRE_Returninge states 42 oSIRE_frametrikesford(OSIRE_ 43 void OSIRE_frametrikesford(OSIRE_ 44 void Frametrikesford(OSIRE_ 45	<pre>pe appEase = IDLE; shack, ServiceNumber = 0, strip = 0; uunt[3]; CommEvenType state, wint8_t stripNr); e(vol0);</pre>				
66 void OSIRE_Callback(OSIRE_ 9 ⊟1 98 switch (state) 99 € 50 case TRANSISSION	CommEvensType state, uint8_t stripNr)				
1 apposet and 2 apposet and 3 case RCCFITOLOG 4 apposet and 5 case RCCFITOLOG 5 case	сел P2ZTE: ecer zcor: EX#Mf 6420 ser				
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#### 添加 hcu\_driver 文件夹,并添加 mdk\_hcu.lib

roj	ject Items   Fo	lders/Exten	sions	Books Proje	ect Info/La	yer			
F	Project Targets:		+ +	Groups:	2	<b>↑ ↓</b>	Files:	*	( <b>∱</b> ↓
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6470				platform CMSIS rtos					
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				OK	Car	ncel			Help

添加 hcu\_cases 文件夹,并添加各个例程

roject Items  F	olders/Exter	sions	Books Proje	ct Info/Laye	r		
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439			hcu_driver hcu_cases			21 王泽斯 6420	
王洋娇 6420						王洋桥 6420	
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王洋桥 6420						王洋桥 5420	
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Set as C	urrent Target	王丰炳 64	20			Add Files	王车桥 64
			OK	Cance	el	m 144/6 6420	Help

#### 添加编译路径,增加 hcu\_driver and hcu\_cases

Project 4	main.c	
Project: HCU_Demo     Project: HCU_Demo     HCU_Demo     P    app	43         /* USER CODE BEGIN PV */           44         /* USER CODE FND PV */           45         WD potnos for farger HOLDemo'	
Doard     Doard     platform     CMSIS     Tos	46     47     Device   Target   Output   Listing   User     C/C++ (AC6)   Ann     Linker   Debug   Utilities         48     49     Preprocessor Symbols	
🗊 🛄 middleware 🖃 🦢 hcu_driver	52 53 Undefine: Folder Setup	? ×
mdk_hcu.lib	54 Setup Complex Include Paths:	🖄 🗙 🗲 🗲
	Se     □     Execute-only Code     Warnings: ▲ C54ke Warnings: ▲ Language C: [c99] ▲	王洋桥 6420
	Include     I	
	68 control fro-rtti funsigned-char fahot-enums fahot-wchar	王洋桥 6420
	72 OK Cancel Defaults Help OK Cancel	
	74 how mac dame():	

随后正常编译即可。

## IAR添加库

在 IAR 中加载完 HCU 的示例后,请注意下面几条提示。

右键工程并点击 Add,并选择 Add Group,添加 hcu\_driver 的目录与 hcu\_cases 的目录。

¥ 8 1	Mainc x			
۰ ،	Copyright 2020-2022 Yuntu Microelectronics co., 1td			
Options	All rights reserved.			
Make	KUNIU Confidential. This software is owned or controlled by YUNIU and may only be			
Compile	used strictly in accordance with the applicable license terms. By expressly			
Rebuild All	using the software, you are agreeing that you have read, and that you agree to			
t Clean	comply with and are bound by, such license terms. If you do not agree to be			
C-STAT Static Analys	, ectivate or otherwise use the software. The production use license in			
120	Section 2.3 is expressly granted for this software.			
stop build	Rita nation of The			
Add	> Add Files			
Remove	Add "main.c"			
Rename	Add Group			
Version Control Syst	tem > tude "peripherals add config.h"			
Ocean Containing En	lude "adk_project_config.h"			
File Properties	Lude (string.h)			
Cat as Aslins	define VOLTAGE_DETECT			
set as Active	unts t data[8];			
	<pre>static uintie_t colorwid(7) = { 0x1fff, 0x0000, 0x0000, 0x1fff, 0x0000, 0x1fff, 0x1fff };</pre>			
	<pre>static uintl6_t colorGREEN[7] =</pre>			
	<pre>static uintl6 t colorBLUE(7) =</pre>			
	{ OxOCOO, OxOCOO, OxIfff, OxIfff, OxIfff, OxOCOO, OxIfff };			
	OSIRE_PwmDataType dataFwm, dataFwmReturn, dataFwmBlank;			
	volatile OSIRE CommEventType appState = IDLE;			
	<pre>volatile uint8_t stripCallback, ServiceNumber = 0, strip = 0;</pre>			
	uints_t leastatus, leatemp; uint16 t address = 0. ledCount[3];			
	OSIRE_ReturnType state;			
	OSIRE_FrameType rspFrame; woid_OSIRE_Callback(OSIRE_CommEventType state, wintS_t_stripNr);			
	void FreemasterStateMachine (void);			
	<pre>void lightShowHode0(void); void OSIBE Callback(OSIBE CommEventType state, wint&amp; t stripNr)</pre>			
	E F			
	switch (state)			
	case TRANSMISSION_COMPLETE:			
	appState = state;			
	case RECEPTION_COMPLETE:			
	appState = state;			
	case RECEPTION_TIMEOUT:			
	appState = state;			
	case CRC ERROR:			
	appState = state;			
	case CHAINLENGTH ERROR:			
	appState = state;			
	break; default:			
	break;			
29 2023 16 10 57 149 5~+	erkled Workhench 8 dl 1 (C) Program Elize (V83) IAR Systems/Embedded Workhench 9 3 anvihinianness dli			
an even to room whiteme	sease meneral and the sease of the grant meet (address dynamic procedure of the search of system procedure)			

右键 hcu\_driver Group,并选择 Add Files 添加 iar\_hcu.a。

mch IDE - Arm 8.40.

右键 hcu\_cases Group,并选择 Add Files 添加各个demo例程。

王洋桥 6<sup>420</sup> 王洋桥 6<sup>420</sup> 王洋桥 6<sup>420</sup> 王洋桥 6<sup>420</sup> 王洋桥 6<sup>420</sup>

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-⊞ 🛋 rtos			~ :4.1
-🕀 🛑 Output			20.
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#### 添加编译路径,增加 hcu\_driver and hcu\_cases

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FLASH	Options for node "HCU_D	Jemo"	×					fa
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	<ul> <li>Category:</li> </ul>		Factory Settings					
- e board	General Options	<ul> <li>Multi-file Compilation</li> </ul>						
- CMSIS	Static Analysis	Discard Unused Publics		000				
	Runtime Checking	- 工業		工洋坊 6420				
He le hcu_cmac_demo.c	C/C++ Compiler	MISRA-C:1998	Encodings Extra Options					
Here hcu_ecb_demo.c	Assembler	Language 1 Language 2	Code Optimizations Output					
hcu_ecc_demo.c	Output Converter	List Preprocessor	Disconstice MISPA-C-2004					
He hcu_rsa_demo.c	Custom Build	List	Diagnostics Wistor-C.2004					
	Build Actions	Containing and and include director	一 24 桥 6420					
	Debugger	gnore standard include directo	ones					
ncu.a	Simulator	Additional include directories: (o	ne per line)					
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- E platom	CMSIS DAP	\$PROJ DIR\$//rtos/osif	16420 III	一 24 1前 6420				
	GDB Server	\$PROJ DIR\$//middleware/util	lity print/printf	主けて				
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	Nu-Link	Preinclude file:	Edit Include Directories				×	
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HCU_Demo			- Clock of data					
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IAH Systems Embedded Workber	ncn 8.3\arm\CUNHG\debugger\	Y IMICroly IM32B1MD24.ddf does n	IOT EXIST.					
1								

## CMakeGCC

#### 通过使用文件夹内的 CMakeLists.txt ,直接编译。

iar_hcu	.a M CMakeLists.txt ×						
HCU_Den	no > M CMakeLists.txt						
22	# include()						
23	# USER CODE END INCLUAR						
25	<pre>set(project elf HCU Demo.elf)</pre>						
26	<pre>add_executable(\${project_elf} app/main.c)</pre>						
27	#add app as include path						
28	<pre>target_include_directories(\${project_elf} PRIVATE app)</pre>						
29	<pre>#add all source files in app folder file(CLOP dim courses "app (* c" "app (* cmp" "app (* c"))</pre>						
30	<pre>if(dip sources app/*.c app/*.cpp app/*.s) if(dip sources)</pre>						
32	foreach(src \${dir sources})						
33	<pre>target sources(\${project_elf} PRIVATE \${src})</pre>						
34	endforeach()						
35	endif()						
36	0 cA20	6A20					
37	# USER CODE BEGIN add_executable	Ŧ)+w.					
38	<pre># target_include_airectories() # target_sources(\$(project_alf)_DBIVATE)</pre>						
40	target include directories(\${project_elf} PRIVATE "hou	driver")					
41	target include directories( <b>\${project_elf}</b> ) PRIVATE "hcu	cases")					
42	<pre>file(GLOB dir_cases "hcu_cases/*.c")</pre>						
43	if(dir_sources)	< 6420					
44	<pre>foreach(src \${dir_cases})</pre>	王洋妨					
45	<pre>target_sources(\${project_elf} PRIVATE \${src})</pre>						
46	endroreach()						
47	# USER CODE END add executable						
49							
50	<pre>configcore(\${project_elf} \${CMAKE_SOURCE_DIR})</pre>						
51							
52							
53	# USER CODE BEGIN target_compile_definitions						
54	# USER CODE END target compile definitions						
56	# OSER CODE END CONFELE_COMPLEE_CEJ INTERIONS						
57	<pre>target compile definitions(\${project_elf} PUBLIC</pre>						
58	"YTM32B1MD2"						
59	"CPU_YTM32B1MD2"						
60	)						
61 62	# USER CODE REGIN target compile options						
61 62 63	<pre># USER CODE BEGIN target_compile_options # target compile options()</pre>						
61 62 63 64	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options</pre>						
61 62 63 64 65	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options 0</pre>						
61 62 63 64 65 66	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options 0 </pre>	王祥桥 6420	王洋师 6420	王洋桥 6420	王洋桥 6420	王洋桥 6420	王洋桥 6420
61 62 63 64 65 66 67 68	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archive)</pre>	Entrif 6420 ve" GENERATED_	CONFIG_TARGET GEN	EININ 6420 IERATED_SDK_TARGE	ENNIN 6420 T UTILITY_PRINT	표하여 GA20 "-Wl,no-whole-	王序前 6420 -archive")
61 62 63 64 65 66 67 68 69	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target Link Libraries</pre>	.ve" GENERATED_	CONFIG_TARGET GEN	ERATED_SDK_TARGE	ENNI 6420 T UTILITY_PRINT	a:۲۰۰۵ (۲۹۵۵) "-wl,no-whole-	archive")
61 62 63 64 65 66 67 68 69 70	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries()</pre>	ve" generated_	CONFIG_TARGET GEN	ERATED_SDK_TARGE	ENHINGA20 T UTILITY_PRINT ENHINGA20	a:۲۰۰۵ 6420 "-wl,no-whole-	王內州 6420 •archive") 王內州 6420
61 62 63 64 65 66 67 68 69 70 71	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_E}</pre>	ve" GENERATED_ DIR}/hcu_driver	CONFIG_TARGET GEN	ERATED_SDK_TARGE	ENNI 6420 T UTILITY_PRINT ENNI 6420	antif 6420 "-wl,no-whole-	王內州 6420 •archive") 王內州 6420
61 62 63 64 65 66 67 68 69 70 71 71 72	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_E # USER CODE END target_link_libraries</pre>	ve" GENERATED_ DIR}/hcu_driver	CONFIG_TARGET GEN	ECHEN GAZO	ENHINGA20 T UTILITY_PRINT ENHINGA20	3:3406 6420 "-wl,no-whole-	王內州 6420 •archive") 王內州 6420
61 62 63 64 65 66 67 68 69 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_E # USER CODE END target_link_libraries</pre>	ve" GENERATED_ DIR}/hcu_driver	CONFIG_TARGET GEN	E 2000 6420 IERATED_SDK_TARGE	ENNI 6420 T UTILITY_PRINT ENNI 6420	1:1418 6420 "-wl,no-whole-	표가에 6420 •archive") 표가에 6420
61 62 63 64 65 66 67 68 69 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_D # USER CODE END target_link_libraries</pre>	ve" GENERATED_ DIR}/hcu_driver	CONFIG_TARGET GEN	EIGHN 6420 IERATED_SDK_TARGE	ENNI 6420 T UTILITY_PRINT ENNI 6420	1:1418 6420 "-wl,no-whole-	표가에 6420 •archive") 표가에 6420
61 62 63 64 65 66 67 68 69 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_D # USER CODE END target_link_libraries</pre>	ve" GENERATED_ DIR}/hcu_driver	CONFIG_TARGET GEN	ECREM 6420 IERATED_SDK_TARGE	EXAM 6420 T UTILITY_PRINT EXAM 6420	3:346 6420 "-wl,no-whole-	EXM 6420 •archive") EXM 6420
61 62 63 64 65 66 67 68 69 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_Link_Libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_E # USER CODE END target_link_libraries</pre>	USER 6420 ve" GENERATED_ DIR}/hcu_driver	CONFIG_TARGET GEN	EININ GADO	EXAM 6420 T UTILITY_PRINT EXAM 6420	E1404 6420 "-Wl,no-whole- E1404 6420	EXM 6420 •archive") EXM 6420
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61 62 63 64 65 66 67 68 69 70 71 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # target_link_libraries</pre>	ve" GENERATED_ DIR}/hcu_driver	CONFIG_TARGET GEN	EXAM GA20 IERATED_SDK_TARGE	EXMM 6420 T UTILITY_PRINT EXMM 6420	E1400 6420 "-Wl,no-whole- E1400 6420	王州州 6420 •archive") 王州州 6420
61 62 63 65 66 67 68 69 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries</pre>	ve" GENERATED_ DIR}/hcu_driver	CONFIG_TARGET GEN	EINEM GA20 IERATED_SDK_TARGE	EXMM 6420 T UTILITY_PRINT EXMM 6420	E1400 6420 "-Wl, no-whole- E1400 6420	EXM 6420 •archive") EXM 6420
61 62 63 65 66 67 68 70 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # USER CODE END target_link_libraries # target_link_libraries</pre>	DIR}/hcu_driver	CONFIG_TARGET GEN	EININ 6420 IERATED_SDK_TARGE	ENH 6420 T UTILITY_PRINT ENH 6420	EINENA GAZO "-Wl,no-whole- EINENA GAZO	EXM 6420 •archive") EXM 6420
61 62 63 65 66 67 68 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # USER CODE END target_link_libraries # Target_link_libraries # USER CODE END target_link_libraries # USER CODE END</pre>	UIR}/hcu_driver	CONFIG_TARGET GEN	EININ 6420 IERATED_SDK_TARGE	EXHM 6420 T UTILITY_PRINT EXHM 6420	E1416 6420 "-Wl,no-whole- E1416 6420	EXM 6420 •archive") EXM 6420
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61 62 63 65 66 67 68 69 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_Link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # USER CODE END target_link_libraries # USER CODE END target_link_libraries # Target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # Target_link_libraries # USER CODE END target_link_libraries # Target_link_libraries # USER CODE END target_link_libraries # T</pre>	UR}/hcu_driver	CONFIG_TARGET GEN	EININ 6420 IERATED_SDK_TARGE	EX414 6420 T UTILITY_PRINT EX416 6420 EX416 6420 EX416 6420	E.1416 6420 "-Wl, no-whole- E.1416 6420 E.1416 6420	EXM 6420 •archive") EXM 6420 EXM 6420
61 62 63 66 67 68 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options  target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_Link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # # # # # # # # # # # # # # # # # # #</pre>	ve" GENERATED_ DIR}/hcu_driver	CONFIG_TARGET GEN	EININ 6420 JERATED_SDK_TARGE	EX414 6420 T UTILITY_PRINT EX416 6420 EX416 6420 EX416 6420	E.1400 6420 "-Wl,no-whole- E.1400 6420 E.1400 6420	EXM 6420 •archive") EXM 6420 EXM 6420
61 62 63 65 66 67 68 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options  target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_Link_libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_E # USER CODE END target_link_libraries # USER CODE END target_link_libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_E # USER CODE END target_link_libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_E} # USER CODE END target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_E} # target_link_libraries(\${project_elf} -L\${Project_elf} -L\${Proje</pre>	ve" GENERATED_ DIR}/hcu_driver	CONFIG_TARGET GEN 1_hcu) 1_hcu) 	EININ 6420 JERATED_SDK_TARGE		E.1400 6420 "-Wl,no-whole- E.1400 6420 E.1400 6420	EXM 6420 •archive") EXM 6420 EXM 6420
61 62 63 65 66 67 68 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options  target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_Link_libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # target_link_libraries(# target_link_libraries # target_link_libraries(# target_link_libraries # target_link_libraries(# target_link_libraries) # target_link_libraries(# target_link_libraries # target_link_libraries(# target_link_libraries) # target_link_libraries(# target_link_libraries) # USER CODE END target_link_libraries # target_link_libraries(# target_link_libraries) # target_lin</pre>	ve" GENERATED_ DIR}/hcu_driver	CONFIG_TARGET GEN 1_hcu) 1_hcu) 	EININ 6420 IERATED_SDK_TARGE	EXM 6420 UUILLITY_PRINT EXM 6420 EXM 6420 EXM 6420	E.1400 6420 "-Wl,no-whole- E.1400 6420 E.1400 6420	EXXIII 6420 •archive") EXXII 6420 EXXII 6420 EXXII 6420
61 62 63 65 66 67 68 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options  target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries() target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # target_link_libraries(\${project_elf} -L\${Project_elf} -L\${Proje</pre>	ve" GENERATED	333444       6420         CONFIG_TARGET       GEN         -1_hcu)       620         33344       6420         33344       6420         33344       6420	EININ 6420 IERATED_SDK_TARGE	EXMIN 6420 T UTILITY_PRINT EXMIN 6420 EXMIN 6420 EXMIN 6420	E.14 M 6420 "-Wl,no-whole- E.14 M 6420 E.14 M 6420	EXXX 6420 •archive") EXXX 6420 EXXX 6420 EXXX 6420
61 62 63 64 65 66 67 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options  target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # USER CODE END target_link_libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # targ</pre>	ve" GENERATED	333444 6420         CONFIG_TARGET       GEN         -1_hcu)       A20         33344 6420       A20         33344 6420       A20         33346 6420       A20	EININ 6420 IERATED_SDK_TARGE		E.1416 6420 "-Wl,no-whole- E.1416 6420 E.1416 6420	EXXIII 6420 •archive") EXXIII 6420 EXXIII 6420 EXXIII 6420
61 62 63 64 65 66 67 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_link_libraries(\$) target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_Link_Libraries # targe</pre>	ENN 6420 ve" GENERATED_ DIR}/hcu_driver	Image: config_target generation       Generation         Image: config_target generation       Generation	EININ 6420 TERATED_SDK_TARGE		E.9400 6420 "-Wl,no-whole- E.9400 6420 E.9400 6420	EXM 6420 •archive") EXM 6420 EXM 6420 EXM 6420 EXM 6420
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61 62 63 64 65 66 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options  target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_Link_Libraries # target_Link_Libraries(\$) target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_Link_Libraries # USER CODE END target_Link_Libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # target_Link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # target_Link_libraries(\${project_elf} -L\${project_elf} -</pre>	ve" GENERATED_ DIR}/hcu_driver 2.77 6000 2.77 6020 2.74 6020 3.74 6020	CONFIG_TARGET GEN 1_hcu) 1_hcu) 	EININ 6420 IERATED_SDK_TARGE		E.1446 6420 "-Wl, no-whole- E.1446 6420 E.1446 6420	EXM 6420 -archive") EXM 6420 EXM 6420 EXM 6420
61 62 63 65 66 67 70 71 72 73	<pre># USER CODE BEGIN target_compile_options # target_compile_options() # USER CODE END target_compile_options  target_link_libraries(\${project_elf} "-wl,whole-archi # USER CODE BEGIN target_link_libraries # target_Link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # USER CODE END target_link_libraries # USER CODE END target_link_libraries # target_link_nonco # USER CODE END target_link_libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # target_link_nonco # USER CODE END target_link_libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # target_link_nonco # Target_link_nonco # Target_link_libraries # target_link_libraries # target_link_libraries # target_link_libraries(\${project_elf} -L\${CMAKE_SOURCE_C # USER CODE END target_link_libraries # target_link_libr</pre>	ve" GENERATED_ DIR}/hcu_driver 2.77.00000 2.77.000000 2.77.00000 2.77.00000 2.77.000000 2.77.00000 2.77.00000 2.77.00000 2.77.00000 2.77.00000 2.77.00000 2.77.00000 2.77.00000 2.77.0000000 2.77.00000000 2.77.0000000000000000000000000000000000	30000 6420         CONFIG_TARGET       GEN        1_hcu)       620         30000 6420       1	EININ 6420 IERATED_SDK_TARGE		E.1416 6420 "-Wl, no-whole- E.1416 6420 E.1416 6420 E.1416 6420 E.1416 6420	EXM 6420 •archive") EXM 6420 EXM 6420 EXM 6420